

Certificate of Analysis

Glycolic acid

PurCert Standard

Product Number	PSR39107	CAS No.	79-14-1
Brand	PureSynth	Lot No.	YUI09T
Molecular Formula	C ₂ H ₄ O ₃	Date of Mfg.	September.2022
Molecular Weight	76.05 g/mol	Date of Exp.	August.2025

Test	Specification	Result
Description	White powder to crystal	White powder
Assay (By HPLC)	≥ 97.5 %	97.78 %
Water (By KF)	NMT 0.5 %	0.3909 %
Identification by ¹ H NMR	Conform to structure	Conforms
Identification by MS	Conform to molecular mass	Conforms
Identification by IR	Conform to structure	Conforms

***Traceable to Internal Reference standard.**

Storage Condition: Store in a room temperature and Keep the container tightly closed.

Remark: The batch complies with the prescribed quality of the above specification.

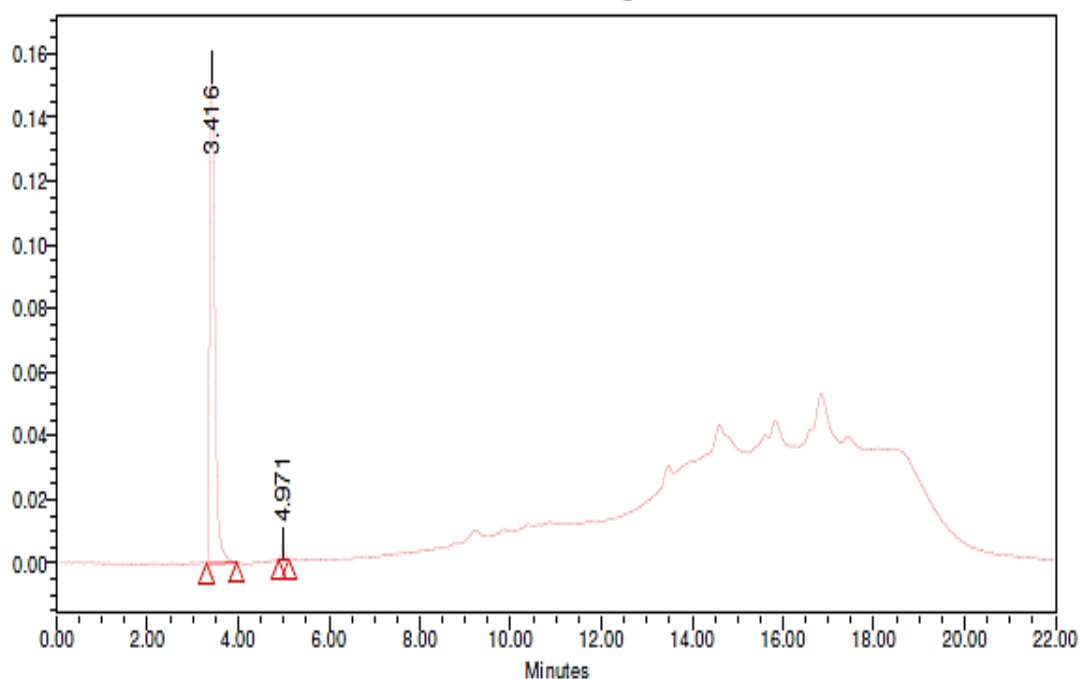
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Assay by HPLC

Sample Name:	AR23000020-Glycolic acid	Acquired By:	System
Sample Type:	Unknown	Sample Set Name:	17_01_2023_01
Vial:	89	Acq. Method Set:	
Injection #:	1	Processing Method:	88
Injection Volume:	5.00 ul	Channel Name:	220.0nm@2
Run Time:	22.0 Minutes	Proc. Chnl. Descr.:	2998 PDA 220.0 nm (2998)
Date Acquired:	17-Jan-23 11:07:51 AM IST		
Date Processed:	17-Jan-23 5:13:40 PM IST		

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	% Area
1	3.416	1275916	155947	97.78
2	4.971	28950	5181	2.22

Purity by HPLC: 97.78 %

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IDENTIFICATION TESTS

MS Spectrum:

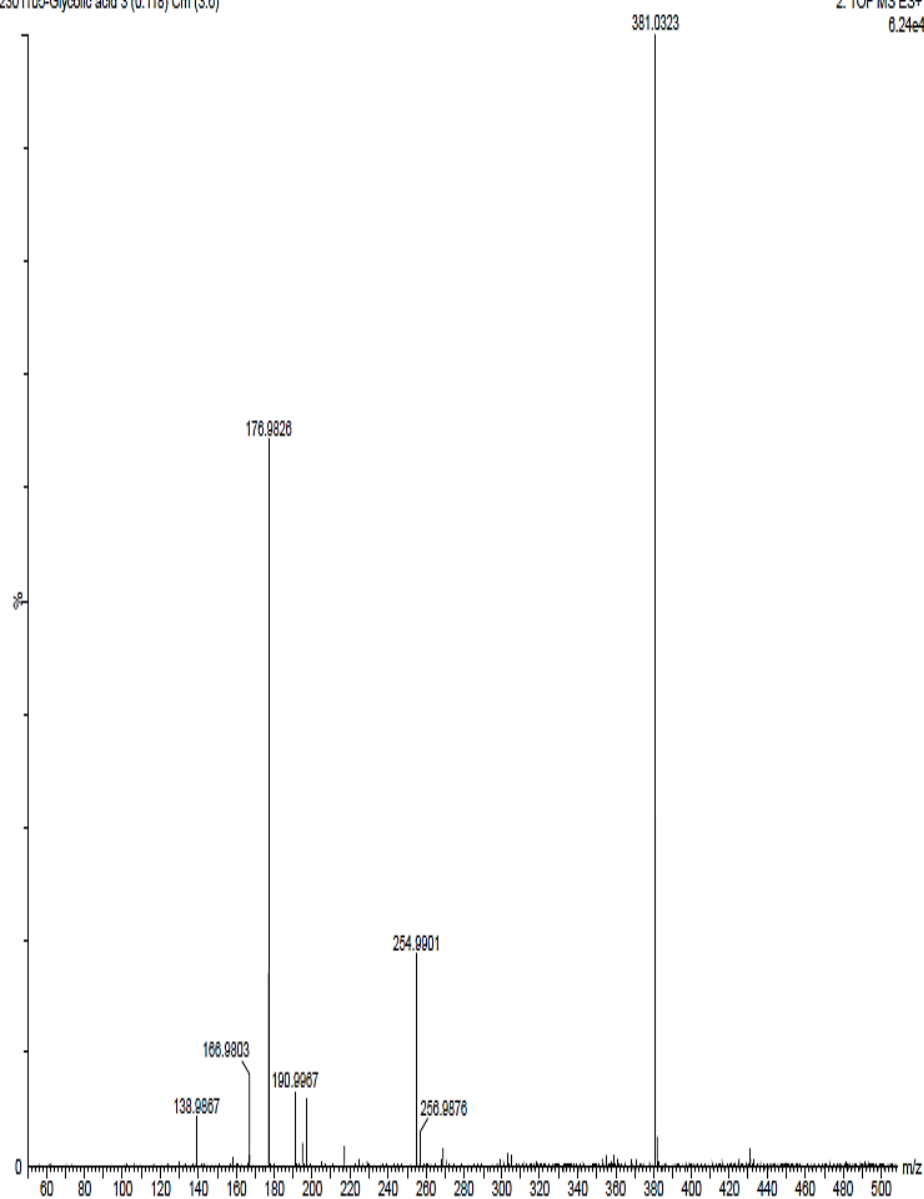
Mass by MS:

Product Name: Glycolic acid

Product Code: PSR39107

2301105-Glycolic acid 3 (0.118) Cm (3:6)

2: TOF MS ES+
6.24e4



MS Spectrum: Conforms to molecular mass

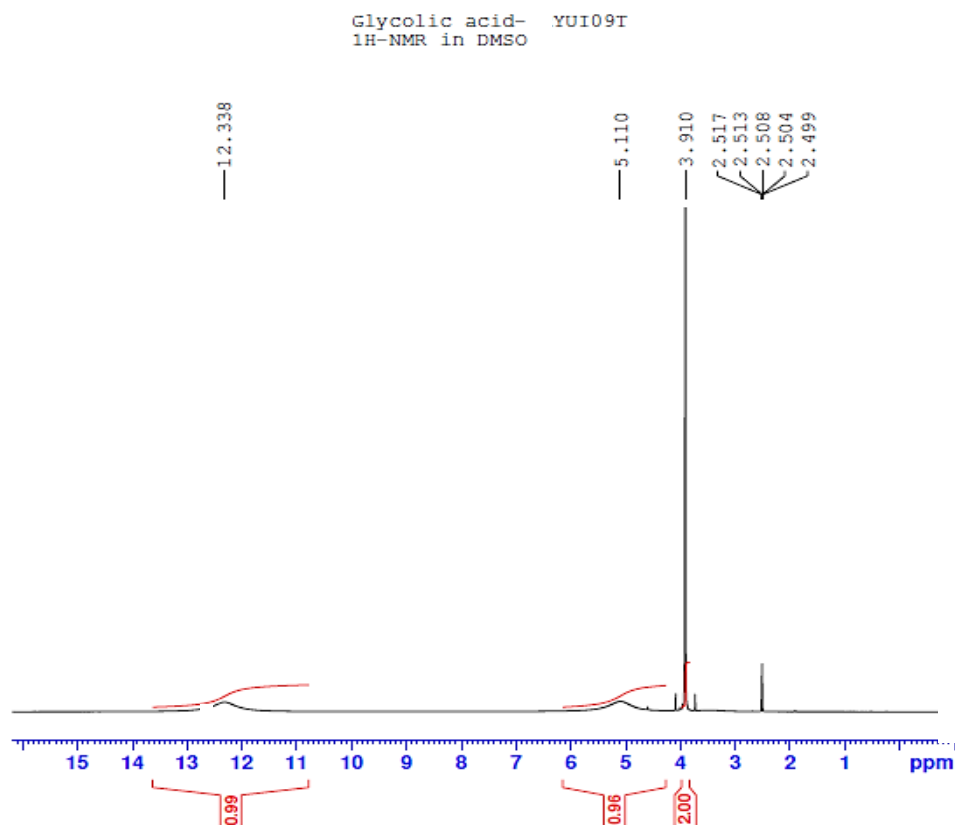
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^1H NMR Spectrum:

Product Name: Glycolic acid

Product Code: PSR39107



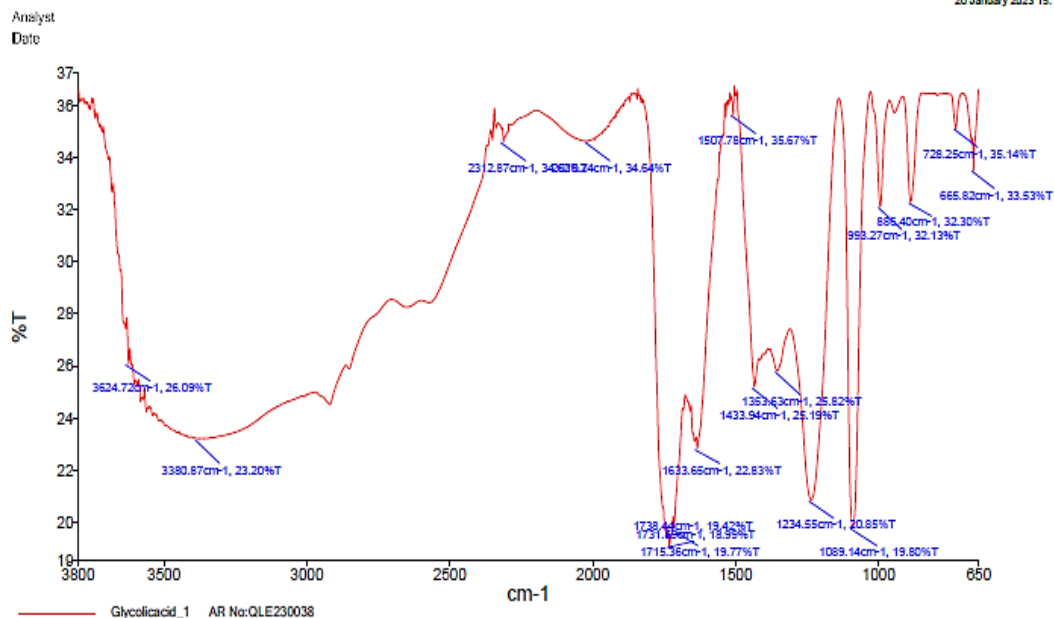
^1H NMR Spectrum: Conforms to structure

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Infrared spectrum:
Product Name: Glycolic acid
Product Code: PSR39107

PentInEimer Spectrum IR ES Version 10.6.1
20 January 2023 15:16



Source Spectra Results		
Spectrum Name	Number Of Peaks	
Glycolicacid_1	17	
List of Peak Area/Height		
Peak Number	X (cm-1)	Y (%T)
1	3624.72	26.09
2	3380.87	23.20
3	2312.87	34.62
4	2018.24	34.64
5	1738.44	19.42
6	1731.55	18.99
7	1715.36	19.77
8	1633.65	22.83
9	1507.78	35.67
10	1433.94	25.19
11	1353.63	25.82
12	1234.55	20.85
13	1089.14	19.80
14	993.27	32.13
15	886.40	32.30
16	728.25	35.14
17	665.82	33.53

IR Spectra: Conforms to structure

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Maximum limits of impurities

WATER DETERMINATION

Method: Karl Fisher titration

Water Content (PSR39107) = **0.3909 %**

Approved By
Head - Technical

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